



# Public Meeting Presentation

I-29 & 85<sup>th</sup> St Interchange - Preliminary Design/Environmental Study

5:30 – 5:45 p.m. April 17, 2019



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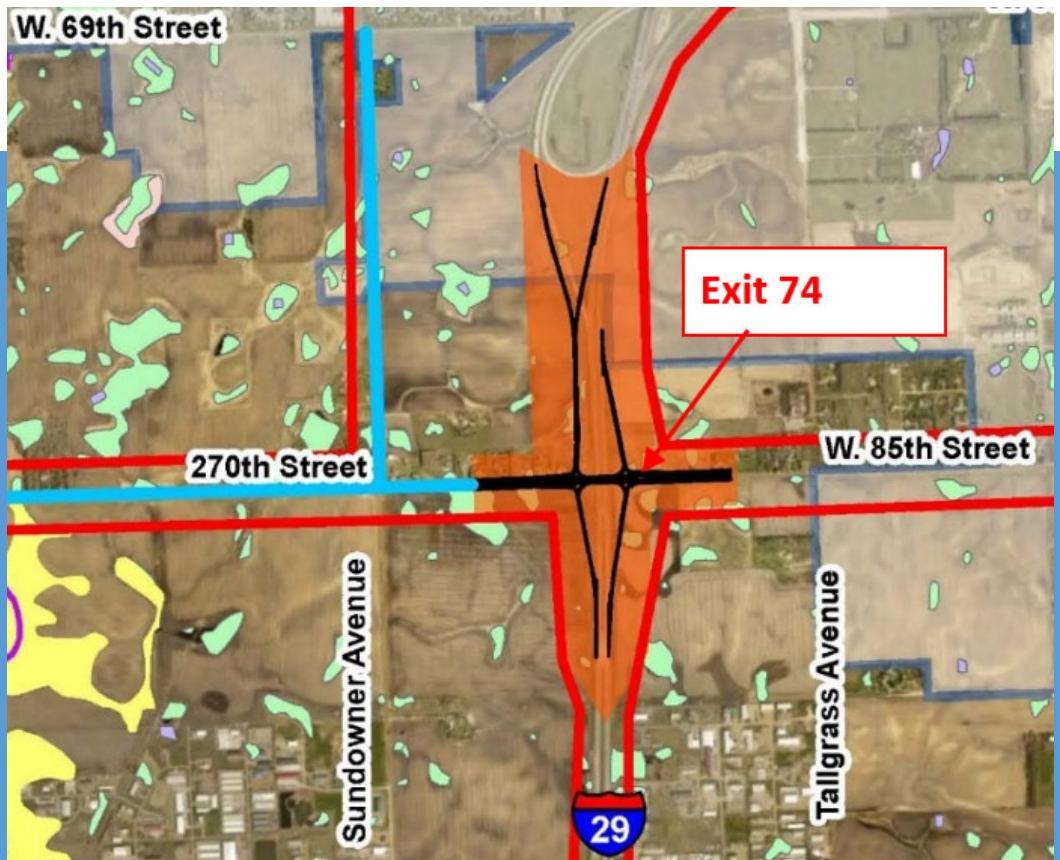
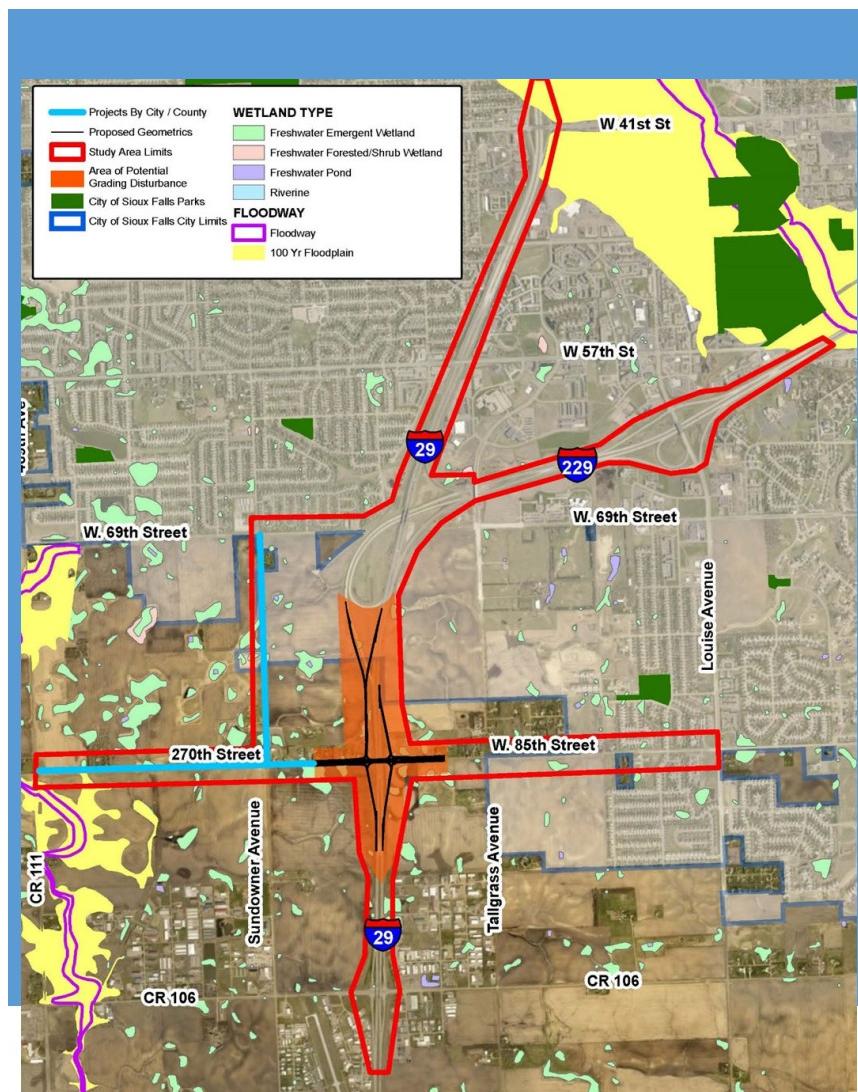
# Agenda

1. Introductions
2. Study Area
3. Project Timeline and Update
4. Major Work Tasks and Status
5. Draft Purpose and Need Statement
6. Alternatives Being Evaluated in the Environmental Study
7. Schedule and Next Steps
8. Open House Continues to 7:00 p.m.



# Welcome

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## I-29 / 85<sup>th</sup> Street Interchange I-29 Future Exit 74

# Study Area

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2009

2016

2017

2018

2019

85<sup>th</sup> Street Overpass Preliminary Design  
and Environmental Studies (2009-2018)

Interchange Justification  
Report (IJR) (2015-2018)

Sioux Falls MPO LRTP amended to include new  
interchange

Mar  
2018

Federal Highway Administration IJR Tentative Approval

Oct  
2018

Interchange Preliminary Design and Environmental Study Begins

Jan  
2019

## Project Timeline and Update



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# Survey and Environmental Studies

Work Tasks and Status



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# Preliminary Topo Survey - Completed

- Set Control Points and Monuments
- Locate Existing Right-Of-Way Lines
- Utility Locates
- Limited topo survey area as necessary to complete preliminary design (night work on I-29 mainline)
- Existing Conditions Base Map – Completed in April



Survey

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## Work in Progress

- Agency and Tribal Coordination
- Special Studies and field work
  - ✓ Wetlands
  - ✓ Regulated Materials
  - ✓ Noise Analysis
  - ✓ Cultural Resources
- Develop and Start to Populate the Environmental Document (Environmental Assessment)
- Receive Public Input on Purpose and Need



# Environmental Studies

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# Preliminary Engineering and Design

Work Tasks and Status



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- Refine conceptual layouts for the IJR build alternative (interchange and braid ramps)
- Develop preliminary gradeline for each alternative
  - Horizontal alignment
  - Vertical alignment
  - Typical sections
- Determine preliminary limits of construction for the build alternative
- Support identification of impacts and evaluation of alternatives

## Preliminary Engineering and Design



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DRAFT

# Purpose and Need Statement



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# Purpose and Need – What is it and why is it important?

- Validates the balance between the need for a project and the social and natural environment impacts that may result
- Establishes that the priority of the project is warranted considering other highway improvement project needs in South Dakota



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# Purpose and Need – What is it and why is it important?

- Drives the process for alternatives consideration, in-depth analysis, and ultimate selection of a preferred alternative.
- Vital to meeting the requirements of other Federal laws and Executive Orders protecting the natural and human environments.

*“Without a well-defined, well-established and well-justified purpose and need, it may be difficult to determine which alternatives are reasonable, prudent and practicable, and it may be impossible to dismiss the no-build alternative.”*

- Federal Highway Administration Environmental Review Toolkit



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# 1. Support Planned Growth and Development

- Most of the Sioux Falls Area's planned regional growth is expected to occur in Northern Lincoln County near the proposed project.
- Long-range local and regional planning documents and development agreements have been approved that include the proposed project. These documents recognize the project's role as a needed regional improvement to support the local roadway system that provides direct access to planned development in the future growth areas.

## Draft Purpose and Need



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## 2. Improve Access and Mobility

The proposed project is needed to improve roadway access and mobility in the project study area by

- Providing new access to the Interstate highway system that meets access spacing standards for urbanized areas as the study area becomes developed
- Guiding local and regional travelers to use the appropriate local and regional transportation facilities (existing and planned) with efficient routes for the purpose of their trips.

### Draft Purpose and Need



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### 3. Meet Transportation System Demands

The proposed project is needed to provide a transportation solution that will be consistent with the Sioux Falls Metropolitan Planning Organization's (MPO's) long-range transportation plan by:

- Providing needed infrastructure to serve projected increases in traffic volumes in the study area and relieve expected future traffic congestion at other interchanges located within and near the study area.
- Ensure adequate levels of service are maintained throughout the regional highway network (i.e. I-29 at County Road 106, I-29 at 41<sup>st</sup> Street or I-229 at Louise Avenue) under projected future traffic conditions.

### Draft Purpose and Need



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# Three Project Alternatives Being Evaluated in the Environmental Assessment



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## Alternative 1: Existing Conditions Alternative

- No interchange and no overpass would be constructed at I-29 and 85<sup>th</sup> Street
- Serves as the baseline when analyzing the social, economic and environmental impacts of a Build Alternative
- Other planned and programmed arterial street projects to improve capacity, safety, and mobility would be constructed

## Alternatives



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## Alternative 2: No Build Alternative

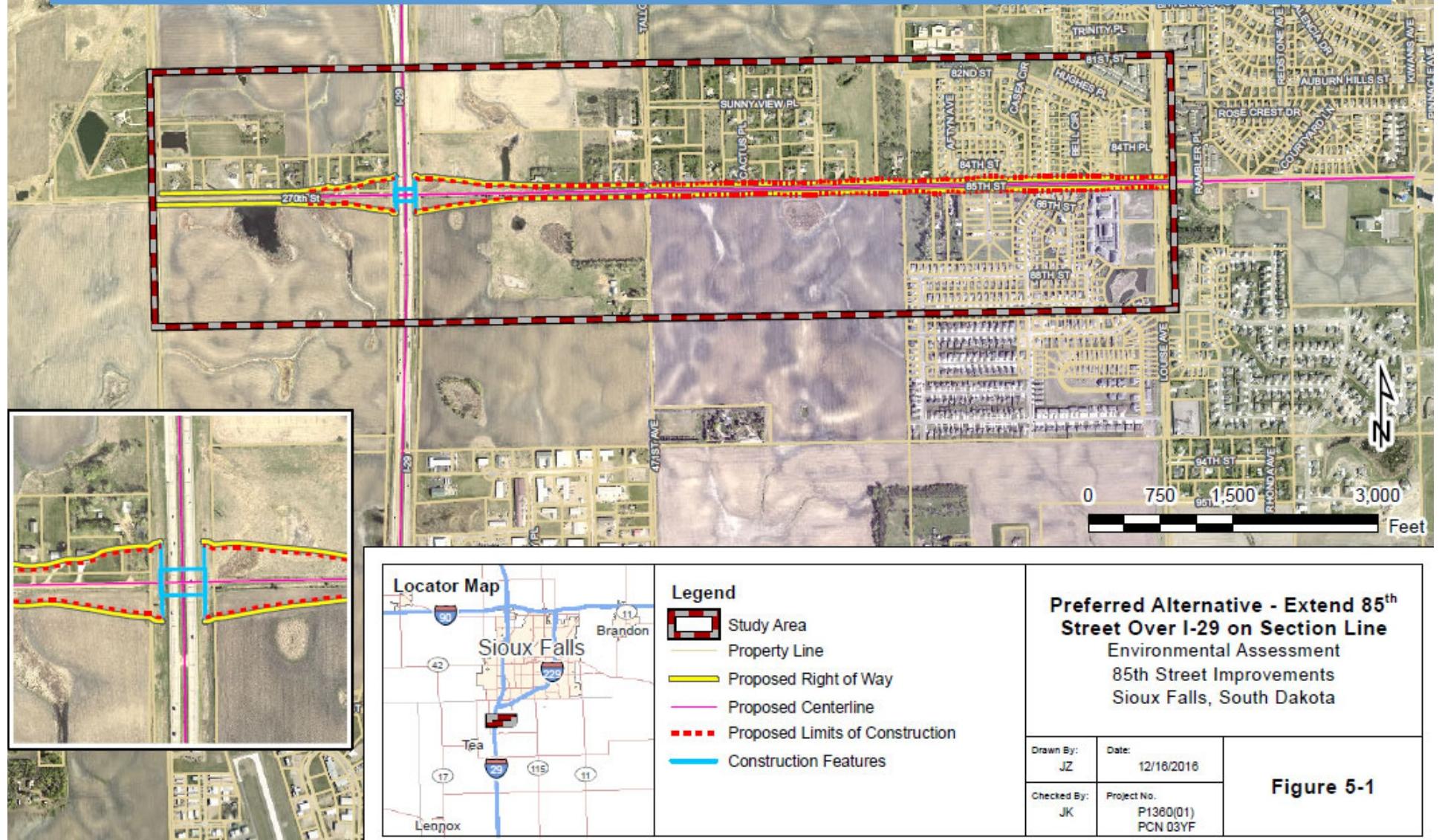
- The previously-approved 85<sup>th</sup> Street bridge overpass **would** be constructed
- No interchange would be constructed at I-29 and 85th Street
- Other planned and programmed arterial street projects to improve capacity, safety, and mobility would be constructed



## Alternatives

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# Alternative 2: No Build Alternative – Construct 85<sup>th</sup> Street and Overpass Only



# Alternative 3: Build Alternative – Diverging Diamond

Interchange Justification Report (IJR)  
Recommended Alternative



Alternatives

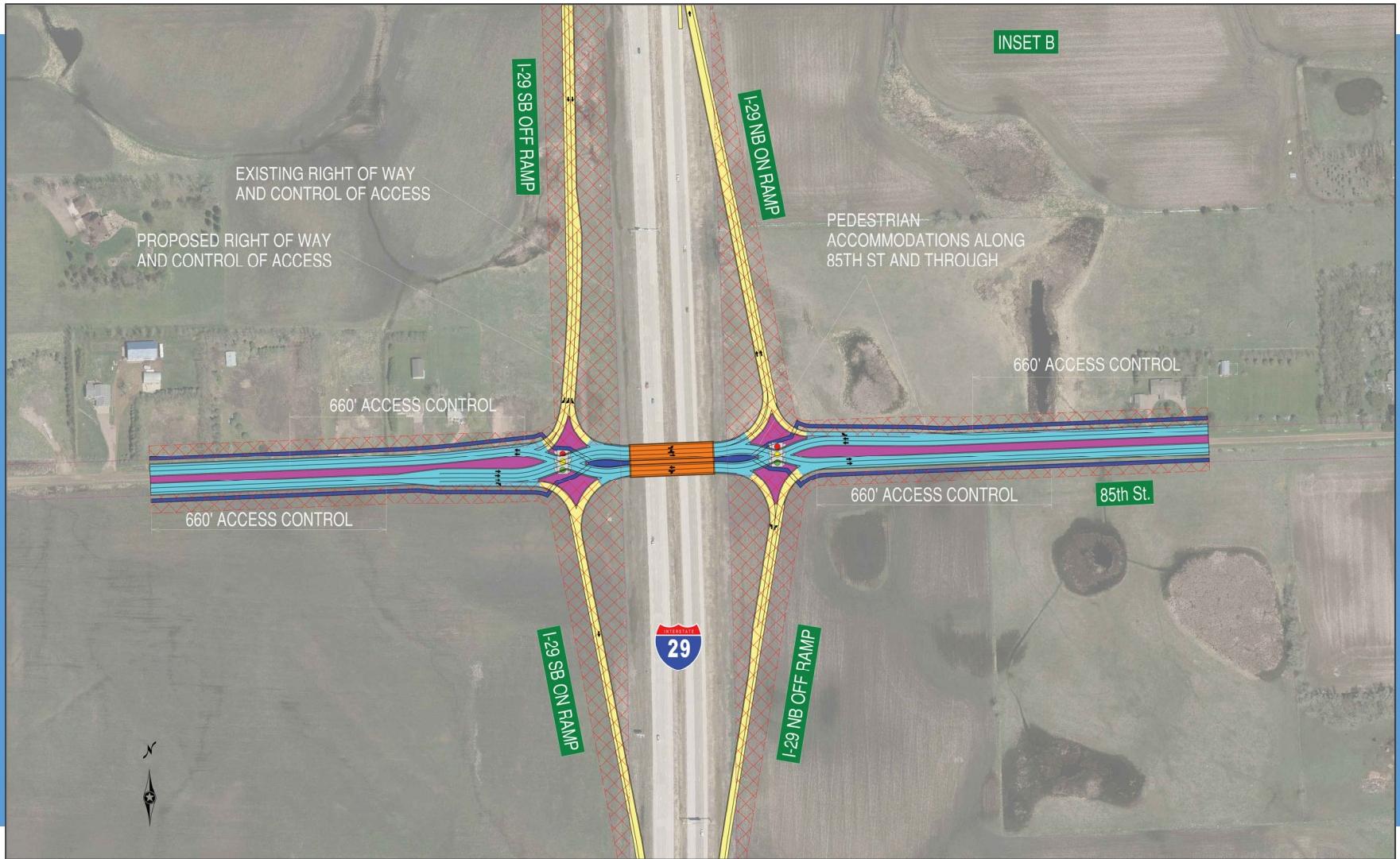
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# Build Diverging Diamond with I-29/I-229 Braid Ramp



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## Schedule



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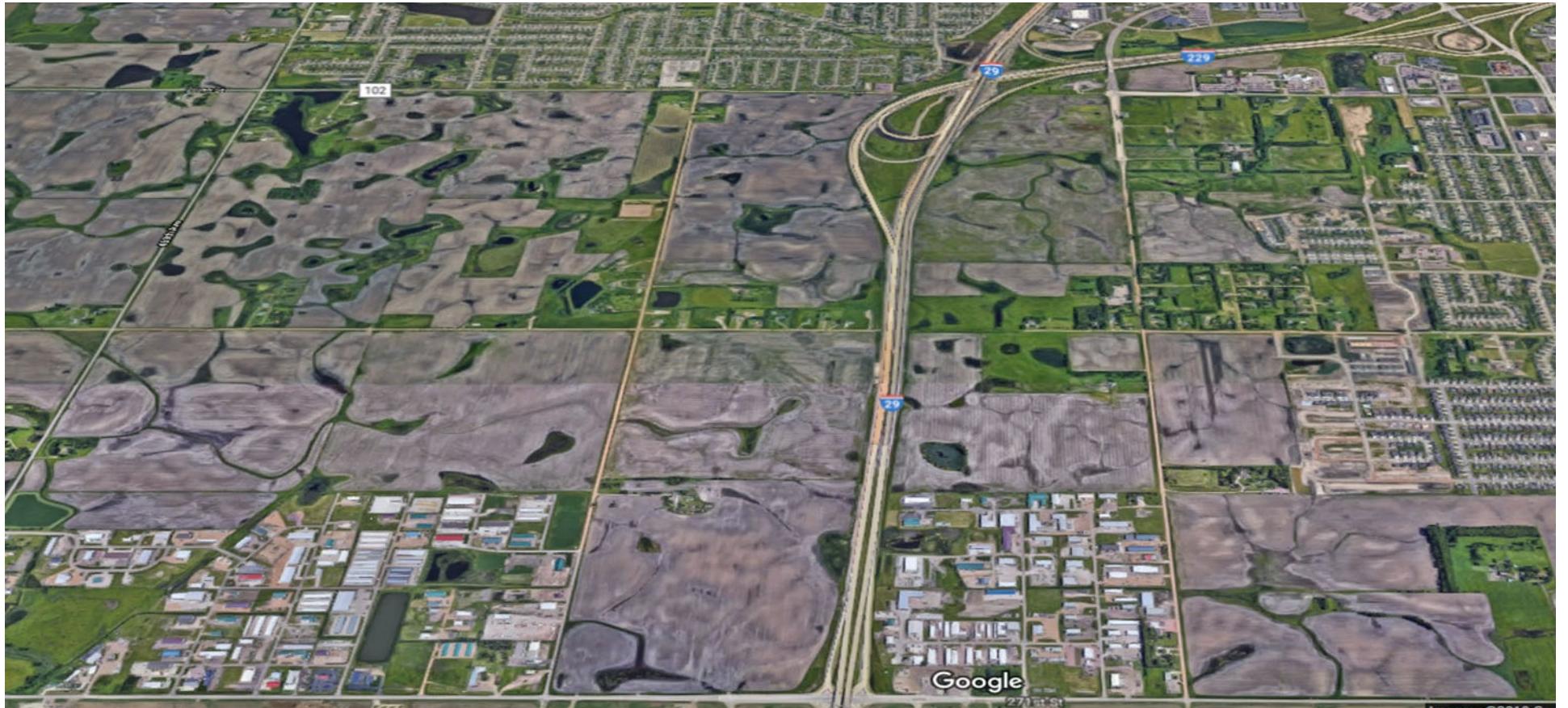
## Project Website

<http://siouxfalls.org/public-works/special-projects/projects-list/85th-st-improvements>

## Project Contacts and More Information



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Open House  
Continues to 7:00 p.m.



*Thank You For Attending*

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